

United States Patent Boffa et al.

US 6,235,691 B1 May 22, 2001 (10) Patent No.: (45) Date of Patent:

54)	OIL COMPOSITIONS WITH SYNTHETIC BASE OILS		3,974,081 8/1976 Ruthowski et al
75)	Inventors:	Alexander B. Boffa, Glen Gardner, NJ (US); Thomas R. Bidwell, Delaware, OH (US); Joe R. Noles, Jr., Belle Mead, NJ (US)	4,313,890 2/1982 Chu et al
73)	Assignee:	Exxon Chemical Patents Inc., Linden, NJ (US)	5,458,794 10/1995 Bardasz et al
*)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.	FOREIGN PATENT DOCUMENTS 0 496486 7/1992 (EP)
21)	Appl. No.:	09/190,159	WO 96/28525 9/1996 (WO).
22)	Filed:	Nov. 12, 1998	• cited by examiner
	Rel	ated U.S. Application Data	
(63) (51)	Continuation of application No. 08/968,696, filed on Nov. 12, 1997, now abandoned. Int. Cl		Primary Examiner—Jacqueline V. Howard (57) ABSTRACT
(52) (58)			A lubricating oil composition is disclosed comprising least 10% by weight of the total oil composition of an es of phthalic acid having a viscosity index less than 100. I lubricating oil composition has improved fuel economy a
(56)			wear performance.
	U.	S. PATENT DOCUMENTS	i a a a a a a a a a a a a a a a a a a a
	3,271,315	9/1966 Mc Cabe 508/485	11 Claims, No Drawings